

P20718.A02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yoko AIDA

Art Unit: UNKNOWN

Serial No : 09/763,625

Examiner: UNKNOWN

I.A. Filed : September 7, 1999

For : ANTIBODY FOR DETECTING POSSIBILITY OF ONSET OF
BOVINE LEUKEMIA

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents and Trademarks
Washington, DC 20231

Sir:

Pursuant to the duty of disclosure set forth in 37 C.F.R. 1.56 and in accordance with the provisions of 37 C.F.R. 1.97 and 1.98, the following commonly assigned, co-pending applications are brought to the attention of the Examiner:

U.S. Application No. 09/557,917, in the name of AIDA, entitled "Methods for Judging the Possibility of the Onset of Bovine Leukemia and Resistance Thereto".

U.S. Application No. 09/748,131, in the name of AIDA et al., entitled "A Method for Typing Polymorphisms of Bovine MHC Class II Genes".

U.S. Application No. 09/794,366, in the name of AIDA, entitled "Methods for Judging Resistance to the Onset of Bovine Leukemia".

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Applicant notes that copies of these applications are attached hereto. The Examiner is invited to review the file wrappers of these U.S. patent applications, including the specifications, claims, disclosure statements, and documents cited therein, at the U.S. Patent and Trademark Office. Of course, if for any reason, the Examiner cannot locate these applications, Applicant will provide any requested materials, if possible.

Furthermore, the following information is brought to the attention of the Examiner, which information was cited in an International Search Report (filed in English and Japanese with the application) and an International Search Report (filed in Japanese with the application and filed herewith in English), both issued in connection with International Application No. PCT/JP99/04834. The Examiner is referred to the International Search Report and the International Preliminary Examination Report for an indication of the relevance given by the International Examiner to the cited documents relative to the claims of the International application.

AIDA et al., "Tumor-associated M_r 34,000 and M_r 32,000 Membrane Glycoproteins that are Serine Phosphorylated Specifically in Bovine Leukemia Virus-induced Lymphosarcoma Cells", Cancer Research, 52:6463-6470 (1992), is cited and discussed in the specification beginning at page 2;

AIDA et al., "Phenotype and Ontogeny of Cells Carrying a Tumor-associated Antigen that is Expressed on Bovine Leukemia Virus-induced Lymphosarcoma", Cancer Research, 53, pp. 429-437 (1993), is cited and discussed in the specification beginning at page 2;

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AIDA et al., "Identification of a New Bovine MHC Class II *DRB* Allele by Nucleotide Sequencing and an Analysis of Phylogenetic Relationships", Biochemical and Biophysical Research Communications, Vol. 209, No. 3, pp. 981-988 (1995), is cited and discussed in the specification beginning at page 2;

WO 98/03680, accompanied by family member U.S. Patent No. 6,090,540 to AIDA, is cited and discussed in the specification beginning at page 2;

Applicant's representative is attempting to obtain the other documents cited in the International Search Report and International Preliminary Examination Report, i.e., AIDA et al. (1994) and KOGUCHI et al. (1996).

Yet further, the following information, which is cited and discussed in the application, is brought to the Examiner's attention:

AIDA et al., "Tumor-associated Antigens on Bovine Leukemia Virus-induced Bovine Lymphosarcoma Identified by Monoclonal Antibodies", Cancer Research, 45, pp. 1174-1180 (1985), is cited and discussed in the specification beginning at page 6;

MIYASAKA et al., "Sheep as an Experimental Model for Immunology: Immunological Techniques in Vitro and in Vivo", Immunological Methods, Vol. III, pp. 403-423 (1985), is cited and discussed in the specification beginning at page 7;

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AIDA et al., "Cloning of cDNAs and Molecular Evolution of a Bovine MHC Class II *DRA* Gene", Biochem. Biophys. Res. Commun., 204, pp. 195-202 (1994), is cited and discussed in the specification beginning at page 8.

Still further, the following documents are brought to the attention of the Examiner:

U.S. Patent No. 5,567,809 to APPLE et al.;

U.S. Patent No. 5,582,987 to LEWIN et al.;

ARMSTRONG et al., "Preferential Site-dependent Cleavage by Restriction Endonuclease PstI", Nucleic Acids Research, Vol. 10, No. 3, pp. 993-1007 (1982);

BROOKER, Genetics Analysis and Principles, p. 79 (1999);

HUGHES et al., "Provirus of Avian Sarcoma Virus are Terminally Redundant, Co-extensive with Unintegrated Linear DNA and Integrated at Many Sites", Cell, Vol. 15, pp. 1397-1410 (1978);

LEVY et al., "Bovine Leukemia Virus Specific Antibodies Among French Cattle. I. Comparison of Complement Fixation and Hematological Tests", Int. J. Cancer, 19, 882-827 (1977);

McKNIGHT, "The Induction of Ovalbumin and Conalbumin mRNA by Estrogen and Progesterone in Chick Oviduct Explant Cultures", Cell, Vol. 14, pp. 403-413 (1978);

STONE et al., "Up-regulation of IL-2 Receptor α and MHC Class II Expression on Lymphocyte Subpopulations from Bovine Leukemia Virus Infected Lymphocytotic Cows", Veterinary Immunology and Immunopathology, 48, pp. 65-76 (1995);

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STONE et al., "Modulation of Bovine Leukemia Virus-associated Spontaneous Lymphocyte Proliferation by Monoclonal Antibodies to Lymphocyte Surface Molecules", Clinical Immunology and Immunovirology, Vol. 83, No. 2, pp. 156-164 (1997);

"Enzootic Bovine Leukosis", Alberta Agriculture Food and Rural Development, www.agric.gov.ab.ca/agdex/600/63-07.html, pp. 1-4 (1996)

Copies of the above-noted documents are enclosed. Each document is listed on the attached PTO-1449 form to permit the Examiner to indicate consideration thereof.

The Examiner is respectfully requested to consider the documents cited above and to confirm such consideration by initialling in the appropriate spaces on the PTO-1449 form and returning a copy of the initialled form to Applicant. It is also requested that these documents be identified in the list of references cited on the patent issuing for this application.

The disclosure of the above documents does not constitute an admission that any particular document is relevant or material to the claims, or is prior analogous art with respect to the present application. The citation of these documents is not to be construed as a representation that no better art exists, or that a search has been made.

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Any comments or questions concerning this application can be directed to the undersigned
at the telephone number given below.

Respectfully submitted,
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